Integrated Air and Missile Defense (IAMD)

Introduction

The PEO MS is applying a system-of-systems acquisition approach to meet the requirements of the warfighter and obtain the desired capabilities of the Army AMD Future Force. This system-of-systems approach calls for a restructuring of systems into components of sensors, weapons, and BMC4I with a standard set of interfaces among those components using a standardized set of networks to communicate. The Army's Integrated Air and Missile Defense acquisition approach significantly impacts the PEO MS strategy for materiel development and systems acquisition.

The PEO MS is fully committed to successfully executing the IAMD program to ensure the materiel solutions for the Army AMD Future Force to provide the capabilities required by the warfighter. Each of the PEO MS Program Offices are working together to develop an IAMD Acquisition Strategy, Integrated Architecture, Specifications, and a Test Strategy that will guide our efforts in delivering the required capabilities.

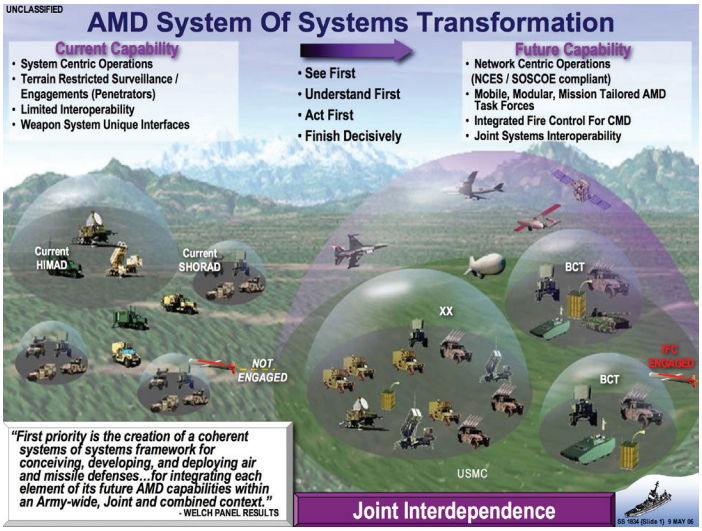
Mission

The mission of the PEO MS IAMD Program Office is to plan, develop, coordinate, and execute the IAMD Acquisition Program. This includes developing, coordinating, executing, and supporting the necessary engineering and integration activities to develop and field the IAMD capabilities as well as ensuring that the IAMD system of systems will fight cooperatively and cost effectively within the Joint, Interagency, Multi-national (JIM) system of systems by integrating analytical efforts, standardizing verification methodologies, consolidating simulations (SIM)/Hardware-in-the-Loop (HWIL)/test resources, and optimizing test/exercise risk mitigation value. The IAMD Program Office provides system engineering support to the other PEO MS Project Managers in the areas of systems analysis, systems integration, technology insertion, production, supportability, logistics, environmental analysis, and system testing.

System Description

The IAMD program will utilize a spiral development approach to accomplish the migration from stove-piped systems to a system of systems/components. This approach involves fielding capabilities incrementally, closely associated with the Combat Developer's timeline for fielding AMD Future Force capabilities. This approach calls for delivering capabilities in three increments, with each being a developmental spiral on the path to the desired objective capabilities.

There are three drivers for success of the IAMD system-of-systems approach: (1) moving from stove-piped system solutions to a component-based, system-of-systems approach; (2) developing a Common BMC4I, interoperable with JIM elements; and (3) fielding increased capabilities against the full spectrum of the air and missile threat. At the center of this transformation is an Integrated Fire Control (IFC) capability, which integrates and manages the fires of all



contributing systems to effectively and efficiently negate the threat.

The Product Manager for Integrated Fire Control (PM IFC) is responsible for the development, testing, fielding, and sustainment of the Integrated Air and Missile Defense (IAMD) Common Battle Command Capability (CBCC) for the IAMD System of Systems. In addition to this mission, the PM IFC organization is an integral member of the Program Executive Office, Missiles and Space, IAMD Engineering Team that is responsible for defining and establishing the IAMD architecture. This architecture is the framework that defines the standards and guidelines to ensure that the components of the IAMD will work together as needed to defeat the current and evolving threats of the current and future battlefield.

The PM IFC will also serve as the IAMD interface into the development of the Future Combat System and will support overall Army Transformation efforts, including the evolution of the Air and Missile Defense Task Force. The CBCC will mature interoperable systems by developing the interfaces, standards, protocols, and functionality to make the IAMD components interdependent. The goal is to provide the warfighter with a flexible and tailorable force that is capable of negating the threat with any weapon and sensor combination and organization as the operational mission dictates.

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Integrated Air and Missile Defense (IAMD)

- Employs Network-Centric, Common Battle Management, Command, Control and Communications versus Current Force System-Centric Approach
- Extends Battlespace and Provides Improved AMD Gap Coverage
- Adopts Modular, Open Software Architecture to Enable Future Force SIAP/Joint Track Manager Solution
- Fully Integrated Air and Missile Defenses: Combined, Joint, Interagency, Multi-national Forces

United States Army Program Executive Office

MISSILES AND SPACE